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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.	
08/987,380	12/09/97	INOUE		М	048500	
Г			7		EXAMINER	
		HM12/03	06			
SUGHRUE MION	N ZINN MACPI	WANG S				
2100 PENNSYL	VANIA AVENI	JE NW		ART UNIT	PAPER NUM	IBER
WASHINGTON I			• •	1617 DATE MAILED		17
				DAIL MAILED	03/06/01	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)					
• • • • • • • • • • • • • • • • • • •		08/987,380	INOUE ET AL.					
	Office Action Summary	Examin r	Art Unit					
٠.		Shengjun Wang	1617					
	Th MAILING DATE of this communica	ation appears on the cover shet with	h th correspond nce address					
Period fo	Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM							
THE P - Exter after - If the - If NO - Failu	MAILING DATE OF THIS COMMUNIC asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuperiod for reply specified above is less than thirty (30) period for reply is specified above, the maximum state to reply within the set or extended period for reply very received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136 (a). In no event, however, may a mication. days, a reply within the statutory minimum of third utory period will apply and will expire SIX (6) MON will, by statute, cause the application to become AE ter the mailing date of this communication, even if	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
1)🛛	Responsive to communication(s) file	ed on <u>27 <i>December 2000</i></u> .						
2a)⊠		2b) This action is non-final.						
3)□	— and the ments is a substant for all owners oxcept for formal matters, prosecution as to the ments is							
Dispositi	ion of Claims							
4)⊠ Claim(s) <u>1-3,5-7,10,11,13 and 16-18</u> is/are pending in the application.								
4a) Of the above claim(s) 16-18 is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-3,5-7,10,11 and 13</u> is/are rejected.							
7) 🗌								
8)[Claims are subject to restrict	tion and/or election requirement.						
Applicat	ion Papers							
9) The specification is objected to by the Examiner.								
10)		objected to by the Examiner.						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved.								
12) The oath or declaration is objected to by the Examiner.								
Priority	under 35 U.S.C. § 119							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. 13 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2 Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
* See the attached detailed Office action for a list of the certified depicts not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).								
14)[_] Acknowledgement is made of a claim for domostic priority and the second of the								
Attachme	nt(s)	_						
16) [] N	otice of References Cited (PTO-892) otice of Draftsperson's Patent Drawing Review formation Disclosure Statement(s) (PTO-1449)	(PTO-948) 19) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)					

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DETAILED ACTION

1. Claims 16-18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in Paper No. 16.

2. Applicant's election with traverse of invention Group I, claim 1-3, 5-7, 10, 11 and 13 in Paper No. 16 is acknowledged. The traversal is on the ground(s) that the two groups of inventions have classified in the same class and subclass and therefore there is no serious burden on the Examiner to search all the claims. This is not found persuasive because the search of one group (e.g., polyurethane) is not required for the search of the other group (epoxy resin). Further, the search is not limited to patent literature.

The requirement is still deemed proper and is therefore made FINAL.

1. The claims have been examined insofar as they read on the elected invention.

Claims Rejections 35 U.S.C. - 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-3, 5-7, 10, 11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tocker (WO 91/10362 of record) in view of Burger et al. (Derwent Abstract, Derwent -ACC-No. 1993-067839 of record).

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Tocker teaches a pesticidal granule composition coated with polyurethane. See, particularly, page 2, line 23-31. The polyols employed has at least two hydroxyl groups and the polyisocyanate has at least one isocyanate substituent (-NCO). See, particularly. Page 4, lines 1-30. The amount of polyisocyanate employed is about 1-20% by weight, and the reaction temperature is at ambient temperature or above. The coating procedure can be carried out stepwise. See, particularly, page 5, line 5-22. Tocker further teaches that, as required by some practice, e.g., slow release of the active component, monomers containing more isocyanate or hydroxyl group may be employed to increase the degree of cross-link in polyurethane. See, particularly, page 10, lines 16-24. The polyisocyanate employed therein are, for example, triisocyanato toluene, 1,5-naphthalene diisocyanate, etc. the polyols employed therein are, for example, glycerin, glycol or other polyhydric alcohols. See, particularly, page 4, lines 3-30.

Tocker does not teach expressly the employment of the particular procedure herein for making the coating wherein the polyols and polyisocyanate are mixed before the application to the granules.

However, Burger et al. teach that the particular procedure herein, i.e., mixing the polyol and polyiosyanate before applying them to the granules, is known for coating agrochemical granules for forming multiple layers of polyurethane coating. The coating made by such procedure are known to be physically stable, resistant to frost and provide sustained release of active ingredients. See the abstract.

Therefore, it would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed the invention was made, to modify the pesticidal granules of Tocker by mixing the polyols and polyisocyanates first followed by coating the mixture to the granules.

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A person of ordinary skill in the art would have been motivated to make such modification because the modification will lead to a stable, controlled releasing coating.

Regarding claims 5, 7, 10,11 and 13 which recited water absorption ratio of the polyurethane is not more than 5%, it is noted that the reference and the instant application are employing the essentially the same polyols and polyisocyanates. See, pages 13-14 in the specification and page 4 in Tocker. Therefore, the polyurethane coating of Tocker is reasonably expected to have the same water absorption ratio as claimed herein.

- 2. Applicant's arguments with respect to the newly added limitation, i.e., mixture of polyisocyanate and polyols have been considered but are moot in view of the new ground(s) of rejection.
- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shengjun Wang, Ph.D. whose telephone number is (703) 308-4554. The examiner can normally be reached on Monday-Friday from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie, J.D., can be reached on (703) 308-4612. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Shengjun Wang

AU 1617

October 16, 2000

RUSSELL TRAVERS PRIMARY EXAMINER GROUP 1200